:5/20

•	4.4		
DART AEROSPACE LTD		Work Order:	22958
	100		
Description: Blade	A	Part Number:	D2741
04.03.03 187 (AC .		
Drawing: D2741 Rev. B2		Qty:	20

. •		\			
Step	Location .	Procedure	₽ _X	Date	Qty
1	EXPEDITING	Issue Work Order M947	1	05.04.13	20
2	METAL	Cut blanks 13.850" long +0.063" -0.000" Material: 4130 steel bar 0.50" x 3.00" Batch: 117454	20	03.0509	20
3 .	CNC CELL	Machine per folio FA108 , MI 560	95	05.05.20	20
4 /	QC	Inspect Level 2	20	0505/2	20
5	QC	Inspect Level 8	a	05.05.12	
6	METAL	Deburr	G	-06.05.12	20
74	METAL .	Bend per Dwg D2741	2	w.06.27	20
8	QC	Inspect Level 5	11	05.24-27	26
9	PURCHASING	Harden material as per Dwg D2741 Min. Ultimate Tensile Strength = 152 ksi (34-40 HRC)	1	15	
	Sept.	Min. Yield Tensile Strength = 141 ksi (F	"lu	05-0705	20
10	RECEIVING	Receive and Inspect for transit damage Ensure Test report or Certification attached	DL	05/07/22	20
11	QC '	Inspect Level 5	11	05,08,09	20
12	FINISHING	Powder Coat White (Ref. 4.3.5.2) per QSI 005 4.3	M	050810	10
13	QC	Inspect Level 3	CX	05/08/10	20
14	STORES	Identify and stock	1 /	0568/10	l ·
15	EXPEDITING	Close W/O Cost / part 55,52 Sur 05/08/11 (20)		05/02/11	

Rev	Date	Change	Revised By	Approved
A	98.09.10	New Issue	DS/CP.	
B	99.03.22	Material hardened after counterbore	DM	
C	00.11.01	Removed P/O for Powder Coat - in house process*	EC	
D	00.11.15	Removed P/O turning - in house process	EC '	

IBI GA Grind out machine marks SAR 04/06/12 20

RELEASED

EC 00.11.20

K10





W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	PROCEDURE CHANGE		Qty	y Approval Mfg / Design Mgr	Approval QC Inspector	
	1	1	2	an and				
					7		·	
<u> </u>								

NCR:		WORK ORDER NON-CONFORMANCE (NCR)					. :
		Description of NC		Corrective Action Section B	Verification	Approval	Approval
DATE	STEP	Section A	Initial Design Mgr	Action Description Sign & Design Mgr Sign &	Section C	Approval Design Mgr	Approval QC Inspector
		1, blank cut .025° too short, Did not machine the ends.	OS. W. 17	PART OKper attached email SD Bull rough and		Parous	USA 27
	A STATE OF THE STA						
						6.	

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date: <u>0.5/09///</u>
NOTE: Date & initial all entries			QA: N/C Closed:	Date:

DART AEROSPACE LTD		Work Order:	22958
Description: Blade	•	Part Number:	D2741
Inspection Dwg: D2741 Rev: B2			Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST X First Article Prototype

r	1					
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.500	+/-0.010	1.500	1			
0.715	+/-0.010	0.715				. *
Ø0.500	+0.005/-0.000	0.5య	_			
2.000	+/-0.010	CAMO	- me	nsax	The	The same of the sa
13.750	+/-0.010	13.754	~	,,,,,,,		Jevension.
Ø1.06 x 0.150	+/-0.010	1.06+0.15	/			
2.930	+/-0.010	2-928	/			ı
0.375	+/-0.010	0.379	. /		,	
:		·				
		·		1.7		
<u> </u>		4				
			Ý			
•						

Measured by	: Cp	Audited by:	136	Prototype Approval:	N/A
Date	: 05/05/10	Date:	05/05/10	Date:	NA
Rev Date	Chango			I David Laboratory	

Rev	Date	Change	Revised by	Approved
A	03.12.22	New Issue	KJ/RF	

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3/2



Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Apr 11, 2005' 07:31 am

Work	Order	No	:	0022958

- Project Name : D2741 Project For : WK520 Work Order Type ': Main

Main WO Number

House Part Number : D2741 Description : Blade ' Manufactured : Yes

Amount Req'd: Amount Done :

: 04-08-05 Start Date Est Finish Date : 05-15-05

Act Finish Date Drawings Reqd : No Ok for Approval :

Approval Rec'd :

Department Code:

Burden Flags : NNNNNN WO Status : Open

Invoice State : Not Invo

Invoice Date Invoice Number:

0.00 Invoice Amount :

Order Entry No:

OE Value

Est Mark Up : 0.000% Actual Mark Up : 0.000%

\$0 Posted to Finished Goods

	Estimated	Actual	Var. %	Posted	To Post
Material Cost	: 0.00	0.00	0.00	0.00	0.00
Engineering Hours : Engineering Cost :	0.00	0. Q 0	0.00	0.00	0.00
Production Hours Production Cost	0.00	0.00	0.00	0.00	0.00
Packaging Hours : Packaging Cost :	0.00	0.00	0.00	0.00	0.00
OverHead Hours : OverHead Cost :	0.00	0.00	0.00 0.00	0.00	0.00
CNC Hours	0.00	0.00	0.00	0.00	0.00
Misc. Hours	0.00	0.00	0.00	0.00	0.00
	=======	=======================================	======	0.00	0.00
Burden :	0.00	0.00	0.00		
Total Cost Mark up Selling Cost	0.00	0.00 0.000 0.00	0.00		

Estimated Actual Labour Hrs/Amount Done 0.00 0.00 0.00 0.00 Profits/(Loss)

Chris Provencal

From:

"David Shepherd" <davids@dartaero.com>

To:

"Chris Provencal" <chrisp@dartaero.com>

Sent: Subject: May 13, 2005 1:50 PM Re: 350 blade fitting

Overall length of 13.70" (instead of 13.750) is acceptable for this part. Distance to holes of 0.665" (instead of 0.715) is acceptable for this part. Attach copy of this email to work order.

David

. 3

---- Original Message -----From: Chris Provencal To: David Shepherd

Sent: Friday, May 13, 2005 11:45 AM

Subject: 350 blade fitting

Sincerely, **Chris Provencal DART** Aerospace Ltd.

Email...chrisp@dartaero.com Phone...613-632-3336

Fax.....613-632-4443





PACKING SLIP

OAK 66350-1

HEAD OFFICE 1371 SPEERS ROAD, OAKVILLE, ONTARIO CANADA L6L 2X5 Tel.: (905) 827-4171 Fax: (905) 827-7489

QUEBEÇ DIVISION 7450 RUE VÉRITÉ STREET, ST. LAURENT, QUÉBEC CANADA H4S 1C5 TEL: (514) 334-4240 FAX: (514) 334-6269

GST No.: R105468102

07/19/2005

MM / DD / YYYY

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PAGE:

1DAR01

K6A 1K7

BILL TO:

DART AEROSPACE LTD. 1270 ABERDEEN ST.

HAWKESBURY, ON

SHIP TO: DART AEROSPACE LTD. 1270 ABERDEEN ST.

HAWKESBURY, ON

K6A 1K7

DATE SHIPPED	SHIP VIA	F.O.B.		
07/19/2005		ORIGIN		
CUSTOMER P/O No.	JOB No.	TERMS		
2008304		СОД		

LN	PART NO	DESCRIPTION	UOM	QTY ORDERED	QTY SHIPPED	B/O QTY
01	D2741	BLADE	EA	39	39	0
	Process Specification HARDENED PER DWG. DO HRC 34-40 MATERIAL: 4130	ons: 2741 TO 152 KSI MINIMUM				
	B22958, 19 PCS B23614, 20 PCS					
0.2	LC	LOT CHARGE		1	1	. 0
	,					

No claims for shortage in weight or count will be entertained, unless presented within 5 working days after receipt of materials by customer.



